

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

PUBLICATION NUMBER : 06176266  
PUBLICATION DATE : 24-06-94

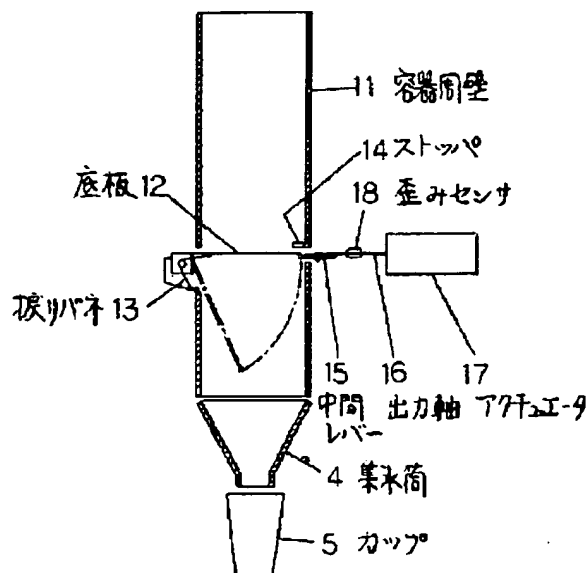
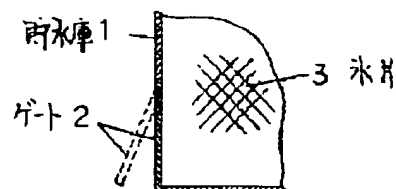
APPLICATION DATE : 11-12-92  
APPLICATION NUMBER : 04330795

APPLICANT : FUJI ELECTRIC CO LTD;

INVENTOR : NISHIWAKI MASATAKE;

INT.CL. : G07F 13/10 F25C 5/00

TITLE : DISCHARGE DEVICE FOR FIXED  
QUANTITY OF ICE PIECES



ABSTRACT : PURPOSE: To discharge a fixed quantity of ice pieces with high accuracy, to maintain and improve the quality of a beverage, and to rationally and effectively utilize the ice storage quantity in an ice storage box.

CONSTITUTION: When ice piece 3 are discharged from an ice storage box 1 and contained on a bottom plate 12, in accordance with its weight, an output shaft 16 receives a bending moment through an intermediate lever 15 and generates a bending distortion, and it is measured by a distortion sensor 18. When its output reaches a value corresponding to a fixed value, a gate 2 of the ice storage box 1 is closed and discharge of ice is stopped, and on the other hand, an actuator 17 is operated, contained ice piece of a fixed quantity are discharged, are thereafter, the bottom plate 12 is reset by energization of a torsion spring 13. In this regard, based on a fact that the weight of ice pieces contained in the bottom plate reaches the fixed value, through the gate 2 of the ice storage box 1 is closed and discharge is stopped, ice pieces which are discharged already at this time point and in the middle of dropping down cause an error to the fixed value.

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